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1 12058-66 EWT a)/EWP(t)/EWP(b) IJP(c) JD/JG/NB SOURCE CODE: UR/0363/65/001/008/1354/1359
ACC NR. AP6001302
Washingranko, Ye. P.; Zmiy, V. I.; Krivoruchko, V. M.
ACC NR. AP6001312 AUTHOR: Ivanov, V. Ye.; Nechiporenko, Ye. P.; Zmiy, V. I.; Krivoruchko, V. M.; Verkhorobin, L. F.; Aleksandrov, O. M.; Mitrofanov, A. S.; Poltavtsev, N. S. Verkhorobin, L. F.; Aleksandrov, O. M.; Mitrofanov, A. S.; Poltavtsev, N. S.
Verkhorobin, L. F., Alexandro, 55
ORG: Physicote chnical Institute. Academy of Sciences UkrSSR (Fiziko-tekhnicheskiy
I implified Avandum indus outcom
TITLE: Study of the oxidation kinetics of molybdenum distilicide at 1500 - 1809C
TITLE: Study of the oxidation kinetics of molyodenam distribution with the oxidation kinetics of molyodenam distribution and the oxidation
Neorgenicheskive materialy, v. 1, no. 8, 1965, 1354-1355
SOURCE: AN SISR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 8, 1965, 1354-1359
mage mage relighdanum compound, silicide, oxidation kinetics, silicon division
ABSTRACT: Notybdenum distilicide samples (prepared by stiteting introduction and 1700 – 1800 C. 1300, and 1350 C) were oxidized for 10 hr at 1500 and 1600 C and for 1 hr at 1700 – 1800 C. 1300, and 1350 C) were oxidized for 10 hr at 1500 and 1600 C and for 1 hr at 1700 – 1800 C. 1300, and 1350 C) were oxidized for 10 hr at 1500 and 1600 C and for 1 hr at 1700 – 1800 C.
ABSTRACT: Notybulendin discount of 10 hr at 1500 and 1600°C and for 1 in at 1500. (2) 2MoSi ₂ + 1300, and 1350°C) were oxidized for 10 hr at 1500 and 1600°C and for 1 in at 1500°C. (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + "SiO ₂ . (2) 2MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + 7O ₂ — Mo ₅ Si ₃ + The oxidation is represented as follows: (1) 5MoSi ₂ + The oxidation is represented as follows: (1) 5MoSi ₂ + The oxidation is represented as follows: (2)
The oxidation 1) represented the increase in
the exidation rate is related to the orientation of the crystais. The structure in the direction
of axis c; if it is kept in mind that the bolleting referration parallel to the surface (MOS12
of axis c; if it is kept in mind that the bonding forces between the auriacs (MoSt2 than the forces between the layers, the layer orientation parallel to the surface (MoSt2
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Card 1/2
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the layer or concluded the	ine 1 at 1250 and entition is perpet at the oxidation r	ate of MoSi ₂ is a	iffected by many rtent one. Orig	g. art. has:	2 figures.	where
SUB CODE:	97, 11 / SUBM D	ATE: 24May65 /	ORIG REF: 00	6 / OTH RE	F: 007	
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SOV-128-58-9-12/16

AUTHORS:

Moskovtsev, F.I., Polychalov, Yu.M., Verkhoshapov, A.I., Redenskiy, V.A., Kulibitskaya, A.Ya., Dvali, G.S., Fomin,

S.F., Ebralidze, L.I., Shkundin, R.M.

TITLE:

Letters to the Editor (Nam pishut)

PERIODICAL:

Liteynoye proizvodstvo, 1958, Nr 9, pp 23-24 (USSR)

ABSTRACT:

In the letters, an improved hammer head for pile-drivers is described and a device for preventing the sticking of molding matter by compressed air. Methods of casting the ball bearing of the refrigerating compressor type ChAU-8 by centrifugal power, to produce distributing plates for foundry heads from quartz sand, and to charge the blast

apparatus with metal shot, are also described.

There are 5 diagrams.

1. Pile drivers--Equipment 2. Molding materials--Performance

3. Compressed air-Applications 4. Ball bearings-Casting

5. Sand--Applications 6. Quartz--Applications 7. Shot blasting

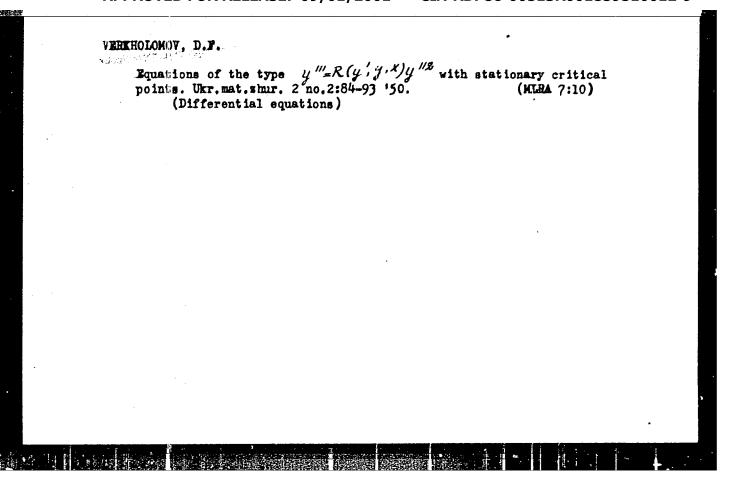
--Equipment

Card 1/1

VERKHRATS'EA, D.A., dots.

Changes in the reactivity of the physiological system of connective tissue during labor. Medych.shur. 19 no.3:83-91 149. (MIRA 10:12)

1. Z akushers'ko-ginekologichnoi kliniki (direktor - prof. M.N. Leichtman) i kafedra patofiziologii (zav. kafedri - prof. Yu.A. Spasokukots'kiy) Stanislavs'kogo medichnogo institutu. (CONNECTIVE TISSUES) (LABOR (OBSTETRICS))





VERKHOLOH(V. Ye.Ye., podpolkovnik meditsinskoy sluzhby; KLIMOV, V.A., Kapitan meditsinskoy sluzhby

[Etiology of intestinal dysfunction following appendectomy.

Your.med.zhur. no.12:65-66 D *56. (MLRA 10:3)

(APPENDIX, surg.

in causing bacillary dysentery etiol.)

(DYSMNTERY, BACILLARY, etiol. and pathogen.

appendictomy)

VERKHOLOM(V, Ye.Ye., podpolkovník meditsinskoy sluzhby; DOLGOV, A.F., kapitan meditsinskoy sluzhby

Uning a dysentery vaccine in table form to examine patients who have recovered from acute intestinal infections. Voen. mid.zhur. no.3:86-87 '59. (MIRA 12:6) (DYSENTERY) (INTESTINES--DISEASES)

SIAVNIN. N.I., polkovnik meditsinskoy sluzhby; VERKHOLOMOV, Ye. Ye., kand.

med. nauk, podpolkovnik meditsinskoy sluzhby; MELLER, A.A., mayor meditsinskoy
sluzhby; GAL'PERIN, Ya.L., podpolkovnik meditsinskoy sluzhby.

Epidemiology of Salmonella heidelberg infection. Voen. med. zhur.

no.4:20-23 Ap '59. (NIRA 12:8)

(SAIMONELIA INFECTIONS,
heidelberg, food pois, (Rus))

VERKHOLOMOV, Ye. Ye. (Leningrad, Nevskiy pr., 50, kv. 28)

Some characteristics of the growth of Bact. prodigiosum in the presence of blood serum of patients suffering from stomach cancer. Vop. onk. 6 no.12:43-47 *60. (MIRA 15:7)

1. Iz voyennogo gospitalya (nach. - K. S. Artemenko, glavnyy khirurg - N. S. Timofeyev) i Sanitarno-epidemiologicheskoy laboratorii (nach. - I. N. Rozhanskiy).

(SERRATIA MARCESCENS) (SERUM) (STOMACH.-CANCER)

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859510012-9 THE RESERVE OF THE PARTY OF THE

VERK HOLOMOV, Y- Ye

FD-3314

USSR/Medicine - Newcastle Dysentery

Card 1/1

: Pub 148-10/24

Author

: Verkholomov, Ye. Ye. and Dolgov, A. F.

Title

: Several facts on the epidemiology of Newcastle dysentery

Periodical

: Zhur. mikro. epid. i immun. 10, 46-48, Oct 1955

Abstract

: A five year study of persons suffering from dysentery revealed that the number of Newcastle dysentery patients increased from 9.4% in 1950 to 28.5% in 1954. A gas-generating variant, isolated for the first time by Gol'dberg in 1949, of the Newcastle bacillus appeared only in isolated instances in persons investigated in 1950, but in 55.6% of those examined in 1954. This variant, apparently, caused no variation in the course of Newcastle dysentery. Epidemiological data showed that all the persons suffering from Newcastle dysentery had come from, or recently visited either Lithuania or Belorussia up until 1953. In 1954 persons from the Ukraine were found to be infected with the Newcastle bacillus. The data are presented on a

chart. No references are cited.

Institution : A Sanitary-Epidemiological Laboratory (Chief - I. N. Rozhanskiy)

Submitted

: December 10, 1954

MANIKHIN, P.I., kapitan meditsinskoy sluzhby; VMRKHOLOMOV, Ye.Ye., podpolkovnik meditsinskoy sluzhby

THE RESERVE OF THE PROPERTY OF

Adupting a hand atomizer for insecticide powder to a compressed air system. Voen.-med.zhur. no.7:75-76 J1 156. (MIRA 9:11) (SPRAYING AND DUSTING EQUIPMENT)

VERKHOLOMOV, Ye.Ye.; DOLGOV, A.F.

VERKHOLOMOV, Ye.Ye.; DOLGOV, A.F.

Further epidemiological observations of the occurrence of Newcastle dysentery (gas-forming variant). Zhur.mikrobiol.epid. i immun., (MIRA 11:3) supplement for 1956:54 '57

1. Is sanitarno-epidemiologicheskoy laboratorii (SHIOBLIA)

VERKHOLOMOV, Ye. Ye.,

Data on Epidemiology of One of the Central Points of Dysentery.

VOYENHO-METSINSKIY ZHURNAL (MILITARY MEDICAL JOURNAL), No 3, 1955. p. 7/.

CONTRACTOR OF THE PROPERTY OF

VERKHOPYATNITSKIY, Pavel Dmitriyevich; SAVCHENKO, L.T., inzh., retsenzent; TURKIN, V.I., kand. tekhn. nauk, retsenzent; AVERKIYEV, L.S., nauchn. red.; NIKITINA, M.I., red.; KOROVENKO, Yu.N., tekhn. red.

[Electrical elements of automatic-control systems] Elektricheskie elementy avtomatiki. Leningrad, Sudpromgiz, 1963. 534 p. (MIRA 16:11) (Automatic control) (Electricity on ships) (Electric apparatus and appliances)

VEFIMENTO, I.N. (Enerthor); Strict ACHE, I.E. (Enerthor); MATTER BENKO, N.N. (Enerthor); Following Transfer to an Indicate and the Control of the Control of

S/070/62/007/006/005/020 E132/E435

AUTHORS:

Matyushenko, N.N., Verkhorobin, L.F., Pugachev, N.S.,

Sivokon', N.V.

TITLE:

The crystal structures of the higher beryllides of

molybdenum, tungsten and rhenium

PERIODICAL: Kristallografiya, v.7, no.6, 1962, 862-864

TEXT: The highest beryllides of No, W and Re were made by allowing refined beryllium to diffuse at above 1100°C into these metals until saturation was reached. Sectioning a foil incompletely saturated showed distinct layers corresponding to incompletely saturated showed distinct layers corresponding to incompletely saturated. X-ray powder photographs were taken completely saturated. X-ray powder photographs were taken (spacings tabulated) and corresponded to a cubic structure with (spacings tabulated) and corresponded to a cubic structure with a = 11.63 (No), 11.63 (W) and 11.54 Å (Re). Chemical analysis gave a formula NoBe₂₂. A structure with the space group of a Fd3m was proposed having 8No in (b), 16Be in (c), 16Be in (d), 48Be in (f) and 96Be in (h) positions. Observed and in (d), 48Be in (f) and 96Be in (h) positions. Observed and calculated structure factors were compared for the assumed parameters x (Be in f) = 0.125 and x (Be in h) = 0. After Card 1/2

The crystal structures ...

\$/070/62/007/006/005/020 E132/E435

the study it was found that the structure was like that of ZrZn₂₂ (Sten Samson. Acta crystallogr., v.14, no.12, 1961, 1229). The volume of the unit cell is substantially identical with the sum of the volumes of the component metals. There are 1 figure

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UkrSSR (Physicotechnical Institute AS UkrSSR)

SUBMITTED:

November 28, 1961

Card 2/2

MATYUSHCHENKO, N.N.; VERKHOROBIN, L.F.; KAREV, V.N.

Strontium beryllide. Kristallografiia 9 no.2:273-275
Mr-Ap'64. (MIRA 17:5)

1. Fiziko-tekhnicheskiy institut AN UkrSSR.

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	s/0070/64/009/002/0273/0275
	s/0010/04/
	ACCESSION NR: AP4024994 AUTHORS: Matyushenko, N. N.; Verkhorobin, L. F.; Karev, V. N. AUTHORS: Matyushenko, N. N.; Verkhorobin, L. F.; Karev, V. N.
	AUTHORS: Matyushenko, N. M. Augushenko, N. M.
	o no. 2, 1904)
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	The powders were mixed and plans and Hg at a beryllide analyses gave The presence of beryllide analyses gave The presence of beryllide analyses gave The presence of beryllide analyses gave and no BeO, but chemical analyses
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MATYUSHENMO, N.N.; KUNCHENKO, V.V.; VERKHOROBIN, L.F.

High temperature vacuum camera for reciprocal lattice: photographing. Zav.lab. 28 no.10:1257-1259 '62. (MIRA 15:10)

1. Fiziko-tekhnicheskiy institut AN UkrSSR. (X rays—Equipment and supplies)

THE REPORT OF THE PROPERTY OF THE PARTY OF T

5/126/62/013/001/006/018 E021/E580

AUTHORS:

Verkhorobin, L.F., Ivanov, V.Ye., Matyushenko, N.N., Nechiporenko, Ye.P., Pugachev, N.S. and Somov, A.I.

Diffusion reactions in the Mo-Si, W-Si and Ta-Si

PERIODICAL: Fizika metallov i metallovedeniye, v.13, no.1, 1962,

The processes occurring during the saturation of molybdenum, tungsten and tantalum by silicon on thermal diffusion were studied. Metallic samples were heated in silicon powder in a vacuum of 10-5 mm mercury in the range 1150-1350°C. a vacuum or to mm mercury in the range 1170-1770 V. silicide layer, formed on the surface of the metals, was examined by metallographic and X-ray analysis. The results showed that the saturated layer was produced, in the main, through the vapour phase. The first stage was the formation of lower silicides. Afterwards, higher silicides are formed. At 1240°C, the disilicide appears after 0.5, 1 and 3 hours on W, Ta and Mo, respectively. Once the disilicide has appeared, further growth occurs largely by this phase, and only after a definite thickness has been attained is there a retardation in growth of disilicide Card 1/2

Diffusion reactions in the ...

s/126/62/013/001/006/018 E021/E580

and increased growth in the layers of lower silicide. It was shown from X-ray analysis and from the change in form of the samples during diffusion that preferential diffusion of silicon through the silicide layer occurred, and the reaction leading to the formation of the phase takes place mainly at the internal boundary of the layer. There are 5 figures and 2 tables,

ASSOCIATION:

Fiziko-tekhnicheskiy institut AN UkrSSR

(Physico-technical Institute AS UkrSSR)

SUBMITTED:

April 25, 1961

Card 2/2

VERKHOROBIN, L.F.; IVANOV, V.Ye.; MATYUSHENKO, N.N.; NECHIPOFENKO, Ye.P.;

PUGACHEV, N.S.; SOMOV, A.I.

Reaction diffusion in systems Mo - Si, W - Si, and Ta - Si. Fiz. met.i metalloved. 13 no.1:77-81 Ja '62. (MIRA 15:3)

1. Fiziko-tekhnicheskiy institut AN USSR. (Silicides) (Diffusion)

MATYUSHENKO, N.N.; KAREV, V.N.; VERKHOROBIN, L.F.

Samarium, europium, and ytterbium beryllates of the composition ABe13. Zhur. neorg. khim. 8 no.7:1788-1789 J1 '63. (MIRA 16:7)

The state of the second second

1. Fiziko-tekhnicheskiy institut AN UkrSSR.
(Beryllium compounds)
(Rare earth compounds)

S/032/62/028/010/009/009 B117/B186

AUTHORS:

Matyushenko, N. N., Kunchenko, V. V., and Verkhorobin, L. F.

TITLE:

High-temperature vacuum chamber for back reflection X-ray

photography

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 10, 1962, 1257 - 1259

TEXT: The authors designed a vacuum chamber for precision X-ray photography of interplanar spacings and for the measurement of electric resistance in crystal lattices of high-melting metals and alloys at temperatures ranging from room temperature up to 2000°C. The apparatus can also be used for detecting phase transition points, determining coefficients of linear expansion and observing recrystallization processes in fixed samples. The vacuum chamber comprises a cylindrical hollow water-cooled casing (height - 60 mm, inner diameter - 120 mm) fastened to a hollow support which is connected to the pumping system. Oscillations in the plane perpendicular to the X-ray beam are imparted by a worm gear driven by a three-phase motor through reduction gear. The sample (maximum length 100 mm) is fixed between two water-cooled brass electrodes which are sealed

Card 1/3

S/032/62/028/010/009/009 B117/B186

High-temperature vacuum chamber ...

by rubber packings. The sample is heated by an a-c current from a stepdown transformer with an accuracy of \pm 1% for the stabilized voltage at the input. Inlets for thermocouples and electric measurement units are at right angles to the axes of the electrodes. Temperature is measured by an optical pyrometer, type ONNM -09 (OPPI-09), through a viewing window provided with a shutter. Precision at 2000°C is not inferior to 2%. Opposite the viewing window a second window, for taking X-ray pictures, is fixed in the cover of the casing. This window can be closed by 0.3-mm thick beryllium foil which is protected from heat radiation and dust by a second Be shield, not thicker than 0.1 mm. The X-ray unit comprises a flat multiframe film badge and a sharp-focused tube designed by B. Ya. Pines and V. S. Kogan. When altering the distance specimen - film from 50 to 300 mm, Braggs angles of from 67 to 880 can be recorded. The chamber was used to investigate the interplanar spacing (130) of a molybdenum specinen, measuring 100.8.2 mm, within a temperature range of from 900 to 2000°C. The vacuum chamber sustained the long period of heating at 2000°C without any disturbance of the vacuum (5.105 mm Hg). The electric resistance could be measured from 900°C upward with an accuracy of $\pm 3\%$. X-ray pictures were taken by using the characteristic K radiation of the Fe plate, focusing

Card 2/3

High-temperature vacuum chamber...

S/032/62/028/010/009/009 B117/B186

the (130) line. At a plate voltage of 30 kv and a current of 2 ma, the exposure lasted 3 - 5 min. Spacings were determined with an accuracy of 0.02%. Results of the experiments agreed well with known literature data.

BEENE BEENE BEENE BEENE BEENE

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk USSR (Physicotechnical Institute of the Academy of Sciences Ukr3SR)

Card 3/3

YEFIMENRO, L.N.; VERKHOROBIN, L.F.; SHVYDCHENKO, A.G.

Oxidation of lower tungsten and molybderum silicides. Izv.
AN SSSR. Neorg. mat. 1 no.11:1911-1916 N '65.

(MIRA 18:12)

1. Fiziko-tekhnicheskiy institut AN UkrSSR, Khar'kov. Submitted May 25, 1965.

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NECHIPORENKO, Ye.P.; KRIVORUCHKO, V.M.; VERKHOROBIN, L.F.; MITROFANOV, A.S.; POLTAVTSEV, N.S.

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Effect of impurities on the kinetics of vacuum siliconizing of molybdenum. Izv. AN SSSR. Neorg. mat. 1 no.12:2212-2218 D '65. (MIRA 18:12)

1. Fiziko-tekhnicheskiy institut AN UkrSSR, Khar'kov.

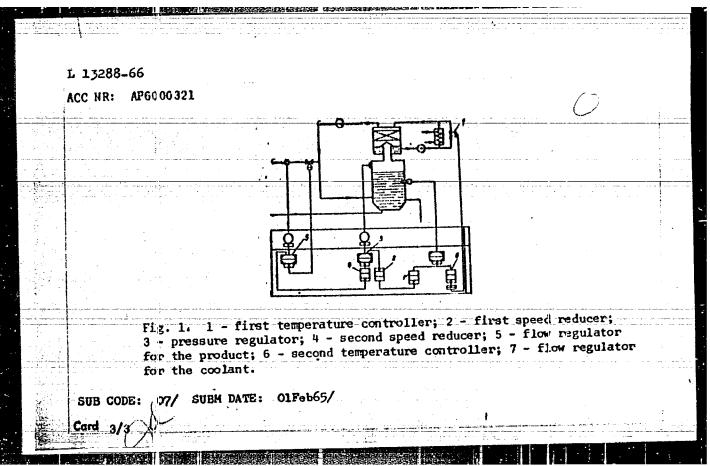
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INVENTOR: Bal Litvin, A. P.: S.; Solnyshkir	lotelov, N. A.; Verkhorubo; Hel nichenko, V. Z.; Honn, L. H.; Fridman, A. N.;	rozov, G. N.; Olerinsk Shilov, L. A.; Shchut	iy, B. I.; Klebanov skiy, S. V.; Yanov	va, I.
E. A.				
ORG: none TITLE: A dev	vice for automatic control ass 12, No. 175923 [announ ific Research and Design I	of an installation for ced by the Leningrad Institute for Chemical	or polymerizing gas Affitiate of the Al Machine Building (eous 1 Len-
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ACC NR: AP6000321

installation for polymerizing gaseous olefins, e.g. in production of low pressure polyethylene. The unit collists of two temperature controllers connected to a flow regulator for the product reactor, and a pressure regulator connected to the controller for the coolant. For increased productivity and optimization of the process, one temperature controller is connected through a speed reducer to the pressure controller which is connected through a second speed reducer to the flow regulator for the product reactor. The other temperature controller is connected to the flow regulator for the coolant.

Cord 2/3



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E 5297-66 EWT(:a)/EPF(c)/EWP(j)/T RM	
ACC NR: AP5025033 SOURCE CODE: UR/0286/65/000/016/0083/0083	
AUTHORS: Verkherubov, B. A.; Fridman, A. N.; Olerinskiy, B. I.; Monakhova, Ye.	
V. is Chaplin, Yu. V. Petrova, L. V.; Vavilova, I. I.	
ORG: none	
TITLE: A method for obtaining polyolefin. Class 39, No. 173945	
Title: A method for obtaining polyolefin- Class 39, No. 173945	ن
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 83	
TOPIC TAGS: polyolefin, monomer, organometal, catalyst	
ABSTRACT: This Author Certificate presents a method for obtaining polyclefin by high-pressure circulation of gaseous monomer through a polymerizer filled with a	
solvent and an active complex, and containing an organometallic catalyst. To	
prevent polyoler in, formed in the early stage of the reaction, from sticking to the walls of the polymerizer, the latter is first filled with pure solvent. The active	Ų
complex is then added to the solvent.	^
SUB CODE: MT, (#7/ SUBM DATE: 23Jan63/ ORIG REF: 000/ OTH REF: 000	
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Card 1/1 UIX: 678.742	
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VERKHORUBOVA, A. N.

USSR/Chemistry - Flatinum, Analysis Chemistry - Cop er, Analysis

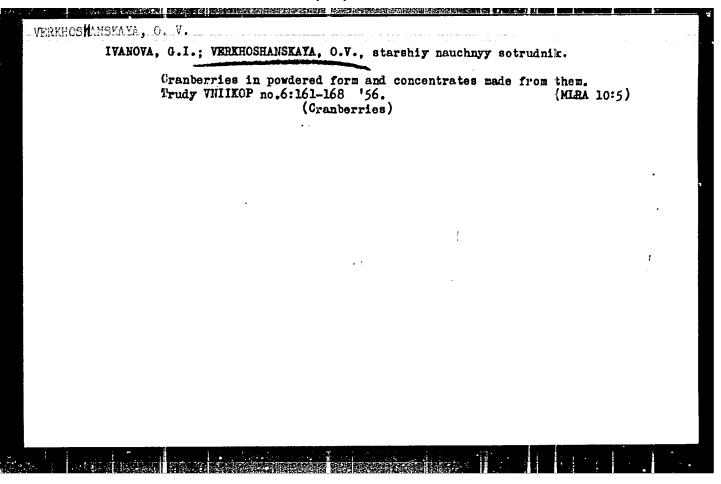
Sept/Oct 48

"Droplet Method for Detecting Iridium, Palladium, Platinym, Thallium, Copper," N. A. Tananayev(Deceased), N. P. Ruksha, A. N. Verkhorubova, Lab of Res Shop, Factory No 170, Sverdlovsk, 5 pp

"Zhur Analit Khimii" Vol III, No 5

Describes droplet method of detecting subject metals. Method has been introduced into factory practice and has been of considerable value in the analysis of platinoid alloys and of molten platinum. Submitted 5 Sept 1947.

PA 13/49T19



PROKOF'YEVA, A.M.; VERKHOSHANSKAYA, O.V.

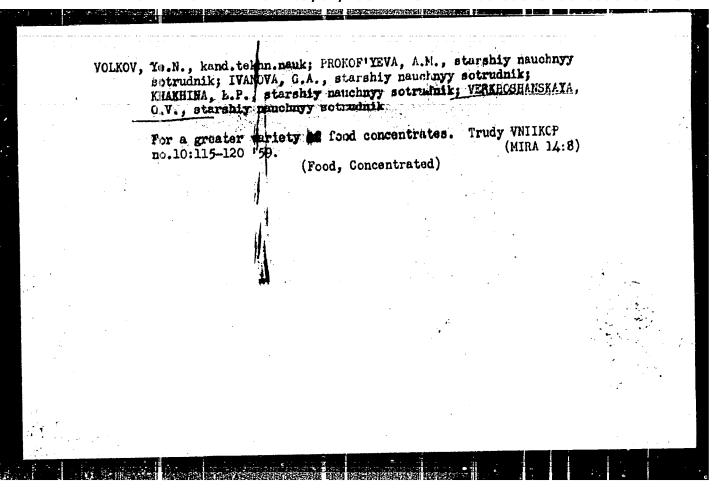
Vegetable and fruit powders produced by drum drying. Kons. i ov. prom. 13 no.10:21-22 0 58. (MIRA 11:10)

l.TSentral'nyy nauchno-issledovatel'skiy institut konservnoy i cvoshchesushil'noy promyshlennosti.
(Vegetables, Dried)

VOLKOV, Ye.N., kand.tekhn.nauk; VERKHOSHANSKAYA, O.V., starshiy
nauchnyy sotrudnik

THE REPORT OF THE PERSON OF TH

Fea concentrates which do not need cooking. Trudy VIIIKOP no.10:3-15:59. (MERA 14:8) (Peas) (Food, Gencentrated)



VOLKOV, Me.N., kapd.tekhn.nauk; PRCKOF'YEVA, A.M., starshiy nauchnyy sotrudnik; VERKHOSHANSKAYA, O.V., starshiy nauchnyy sotrudnik

Preparing vegetable and fruit powder in a roller drysr.
Prudy VNIIKOP no.10:121-127 '59. (MIRA 14:8)
(Vegetables, Dried) (Fruit, Dried)

PROKOF'YEVA, A.M., starshiy nauchnyy sotrudnik; VERKHOSHANSKAYA, Q.V., starshiy nauchnyy sotrudnik

Keeping qualities of cereals enriched with vegetable and fruit powder and of puree-like vegetable soups for children. Trudy VNIIKOP no.10:159-162 '59. (MIRA 14:8) (Cereals as food) (Soups)

VOIKOV, Ye.N., kandidat tekhnicheskikh nauk.; VERKHOSHANSKAYA, O.V., starshiy nauchnyy sotrudnik.

The second secon

Study of varieties of peas as a raw material for the production of concentrates. Ref. nauch. rab. VNIIKOP no.3:71-76 '55. (MLRA 9:11)

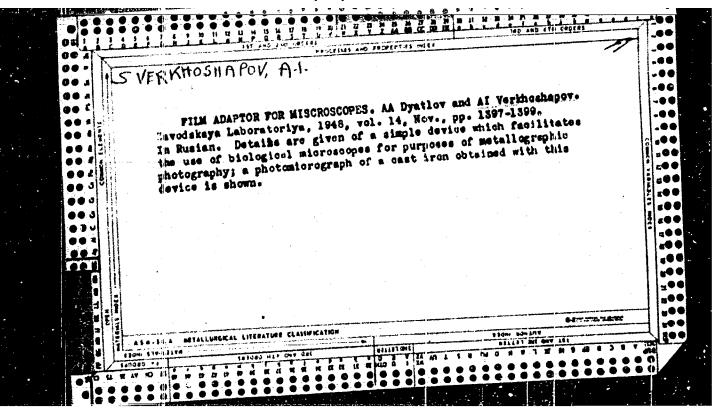
(Peas-Varieties)

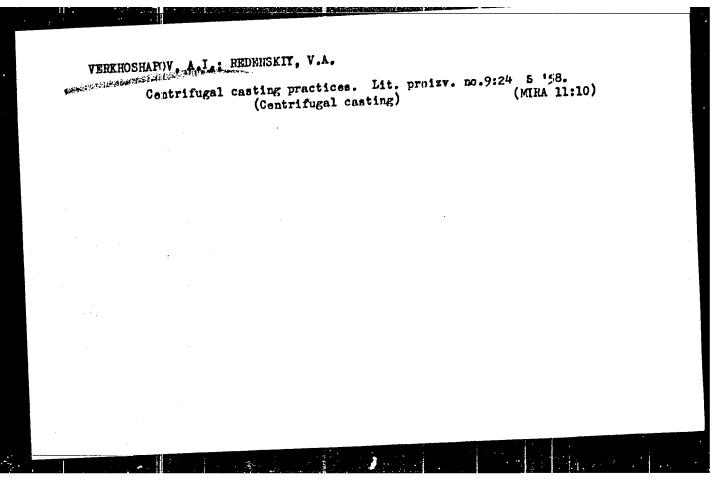
VERKHOSHAPOV, A., kand.tekhn.nauk, dotsent; CHUVIN, V., starshiy inzh.

Corrosion of shell and tube condensers in cooling plants. Mor. flot 22 no.1:29-30 Ja 162. (MJRA 15:1)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti (for Verkhoshapov). 2. Chernomorskoye parokhodstva (for Chuvin).

(Refrigeration and refrigerating machinery--Corrosicn)





ACC NR: AP7002938

SOURCE CODE: UR/0020/66/171/006/1352/1354

AUTHOR: Rafikov, S. R. (Academician AN KazSSR); Rode, V. V.; Verkhotin, H. A.; Andrianov, K. A. (Academician)

ORG: Institute of Heteroorganic Compounds, Academy of Sciences SSSR (Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR)

TITLE: Mechanism of thermal stabilization of polydimethylsiloxane by titanium and iron compounds

SOURCE: AN SSSR. Doklady, v. 171, no. 6, 1966, 1352-1354

TOPIC TAGS: lubricant additive, lubricant, silicone lubricant, silicone lubricant thermal stability

ABSTRACT:

A study was made of the mechanism of the effect of small amounts of titanium and iron compounds on the thermal degradation of polydimethylsiloxane (PS) in vacuum under isothermal conditions. The results were compared with previously obtained thermal degradation data on polytitanodimethylsiloxane (PTS) (PS containing Ti atoms in the backbone). The additives tested were tetrabutoxytitanium (BT), dibutoxytitanium bis(acetylacetonate) (AT), iron acetylacetonate (AI), titanium oxides (OT), and iron oxides (OI). The amount of BT, AT, or AT to be added was calculated so there was one equivalent of metal per 62 repeat units of PS, the same ratio as in the PTS.

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ACC NR: AP7002938

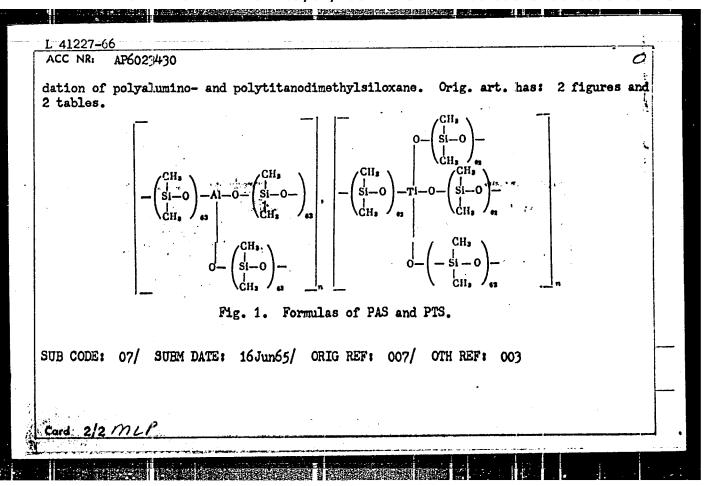
BT, AT, and AI were introduced by mixing their solutions in dry benzene with a similar solution of PS, and subsequently evaporating the solvent. OT and OI were introduced by adding a ten-fold excess over theory to concentrated benzene solutions of PS, with subsequent drying and milling. The thermal degradation criteria used were weight loss, intrinsic viscosity of benzene-soluble fraction, amount of gel fraction, and amount of volatiles formed, all at 200—500C for 4 hr. Experimental results are given in graphic form. It was found that the additives have a beneficial effect on thermal stability similar to, but less pronounced than that of the presence of titanium in the backbone at the onset (PTS). It was concluded that the beneficial effect of metal compounds is due to their reacting with the PS macromolecules in the process of thermal degradation to form a new high-thermal-stability, high-molecular-weight compounds containing metal atoms in the backbone.

Orig. art. has: 3 figures.

SUB CODE: 11/ SUBM DATE: 02Apr66/ ORIG'REF: 007/ OTH REF: 003/ ATD PRESS: 5112

Card 2/2

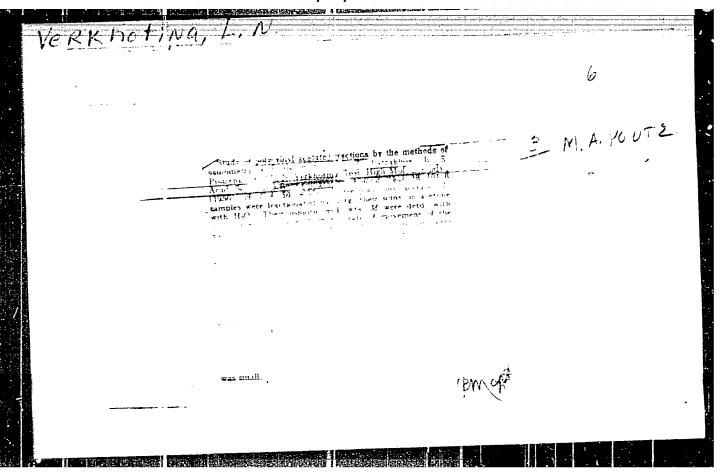
I. 41227-66 E5T(m)/EØP(j)/T	IJP(c) VM/S			
ACC NR: AP6023430	Sour	RCE CODE:	UR/0190/66/008/007/1226/123	0
AUTHOR: Verkhetin, M. A.; A Rafikev, S. R.; Rode, V. V.				44 B
ORG: <u>Institute of Hetero-org</u> soyedineniy AN SSSR)	anic Compounds, A	N SSSR (In	stitut elementoorganicheski	kh
TITIE: Thermal degradation				
SOURCE: Vysokomolekulyarnyye	soyedineniya, v.	8, no. 7,	1966, 1226-1230	
TOPIC TAGS: polysiloxane, ti evolymerization, elastomer ABSTRACT: The thermal degrad titanodimethylsiloxanod (PTS)	tanium compound, pation of polyalum	palymer de	gradation, cryulo aluminum compound	
depolymerization involving ru trisiloxane. The depolymeriz reached; at the same time, the	oture of the Si-O ation begins after a aluminum atom in	bond and in the gel in the clast	the polymers was found to be formation of hexamethylcyclo formation maximum has been comer chain slightly increas) - :
and the titanium atom consideration of hydrogen, more than the depolyment of hydrogen, and the depolyment of hydrogen of hydroge	formation maximu temperatures as c	m in polytomered to	itanodimethylsiloxane is po_yaluminodimethylsiloxan	o'
Card 1/2	UDC:	_		
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TSVETKOV, V.N.; VERKHOTINA, L.N.

Photoelastic effect in methylmethacrylate and poly-p-tertiary-butylphenylmethacrylate polymers and their copolymers. Zhur. tekh. fiz. 28 no.1:97-108 Ja 158. (NIRA 11:3)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. Leningrad. (Methacrylic acid) (Photoelasticity)



VERKHOTINA, L.N.

FATTAKHOV, K.Z.; PISARENKO, E.S.; VERHOTINA L.N.

Osmometric and viscometric studies of polyvinyl acetate fractions [with English summary in insert]. Koll.shur. 18 no.1:101-106 Ja-F *56. (MIRA 9:6)

1.Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad. (Acetic acid)

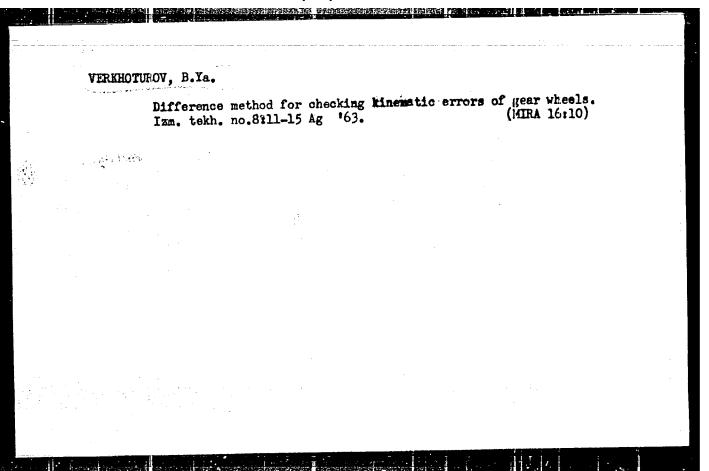
NECHIPORENKO, V.G., kand.tekhn.nauk; PRIKHODCHENKO, P.P., inzh.; ZAYTSEV, V.A., inzh.; TSAPOV, V.P., inzh.; VERKHOTUROV, A.D., inzh.

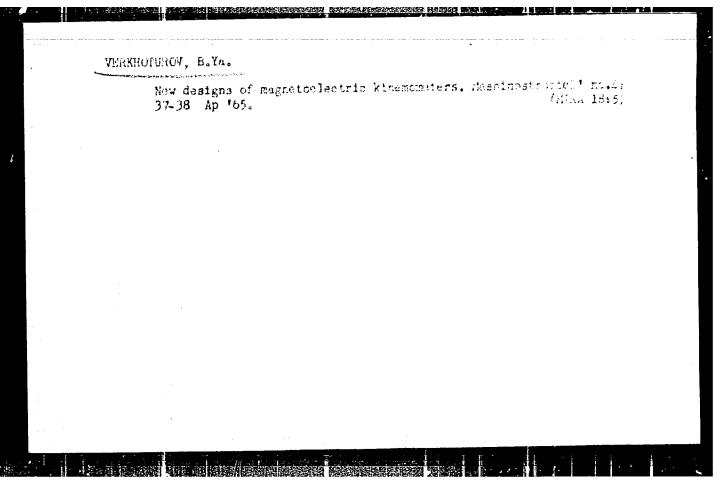
Cutting worm spiral with a variable pitch and profile height of the turn. Mashinostroenie no.6:82-84 N-D *65. (MIRA 18:12)

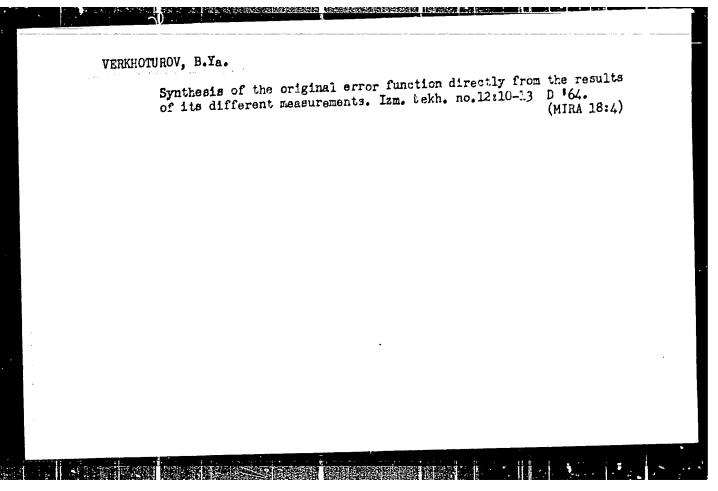
VERKHOTUROV, B.Ya.

Using the "magic eye" in measuring small holes. Izm. Ekh.
no.9:12-14 S '62. (MIRA 15:11)

(Measuring instruments)







VERKHOTUROV, B.Ya.; MARKOV, N.N.

Levice for checking the kinematic precision of mechanisms. Stan.i instr. 35 no.9:21-24 S *64. (MIRA 17:10)

VERKHOTUEOV. B.Ya.; MARKOV, N.N.

Determining cyclic errors of spur helical gears. Izm.tekh.

MIRA 15:12)

(Gearing—Testing)

PROSEURYAKOV, Yu. O., REZZUBENKO, N.K., VERKHOTUROV, R. Ta.

High-speed gear milling with hard-alloy-tipped worm
hobs. Stan.i instr. 31 no.4:18-22 Ap '60. (MIRA 13:6)
(Gear cutting)

VERKHOTUROV, B.Ya.; KANDALOV, M.I.

Instruments manufactured at the Chelyabinsk Plant. Biul.tekh.ekon.inform.Cos.nauch.-issl.inst.nauch.i tekh.inform. no.ll:
61-65 '62. (MRA 15:11)

(Chelyabinsk--Instrument industry)

CIA-RDP86-00513R001859510012-9

s/115/62/000/009/001/001 E194/E184

AUTHOR:

Verkhoturov. B.Ya.

Use of a 'magic eye' to measure small holes

TITLE: PERIODICAL: Izmeritel'naya tekhnika, no.9, 1962, 12-14

The Chelyabinskiy zavod izmeritel nykh instrumentov (Chelyabinsk Measuring Instrument Works) has developed an instrument for measuring small holes in parts placed on a microscope stage and has made a prototype. The principle of measurement is that a measuring tip is inserted into the hole and

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then the microscope stage is moved until contact occurs between the measuring tip and the side of the hole. Contact is recognised by connecting the measuring tip to a 'magic eye' circuit based on a tube type 6E5; the circuit is given. The method of ensuring that the measurement is made correctly across the full diameter of the hole is explained. Sources of error are analysed and selection of the optimum diameter of tip for a given

size of hole is explained. The 'magic eye' provides an extremely sensitive method of establishing that contact has occurred.

Card 1/2

Use of a 'magic eye' to measure ... S/115/62/000/009/001/001 E194/E184

Tests were made with rings ranging in diameter from 1 to 20 mm using probes of diameter from 0.5 to 4.04 mm. It is concluded that the total error of measurement of the instrument is 1.065 microns; it is the most accurate of contact methods and is recommended for measuring holes of the first class of accuracy.

There are 4 figures.

Card 2/2

VERKHOTUROV, KH. N. PA 16/49T100 USSR/Mining Methods Oct 48 Drilling "The Use of Drilling With Flushing at the Nikitov Ore Deposits," Kh. N. Verkhoturov, Mining Engr, 2 pp "Gor Zhur" No 10 Mikitov mercury deposits are located on axial plane of main Donets anticline. Ore-bearing sandstones contain 94% silica (90% of which is free quartz). It is therefore necessary to reduce dust formation to minimum to avoid silicosis. One method adopted is drilling with flushing. Results are illustrated graphically. FDB 16/49T100

VERKHOTUROV, M.V., inzh.

Pneumatic coal preparation in the Kuznetsk Basin. Nauch.trudy KuzNIIU-gleobog. no.2:55-69 164. (MIRA 17:10)

25,2000

80017

\$/121/60/000/04/02/008

AUTHORS:

Proskuryakov, Yu.G., Bezzubenko, N.K., Verkhoturov, V.Ya.

TITLE:

High-Speed Gear Hobbing With Hard-Alloy Fitted Hobs

PERIODICAL: Stanki i Instrument, 1960, No 4, pp 18 - 22

TEXT: In order to carry out investigations of high-speed finishing worm hobbing, assembling hobs (three varieties) with inserted blades, fitted with hard-alloy plates, were designed and manufactured. The first type of hob design with a module of 9 mm is shown in Figure 1. The authors give a description of the hob construction, the body of which is made of 45kh grade steel, heat-treated up to a hardness of RC 30 - 45. Figure 2 shows the hob bits, fitted with the T5klO grade hard alloy. The durability tests of the hobs, fitted with hard-alloy bits and carried out in co-operation with the Chelyabinsk Polytechnic Institute and the Chelyabinsk Tractor Plant had an aim to determine the optimum of hard-alloy blades and to investigate the character of their wear under various operating conditions. The hard-alloy grades T15k6 and T5k10 were tested by machining the reducer gear, made of 12khNZA grade steel, and the skew-teeth flywheel rim, made of 40kh grade steel, both of the S-100 tractor. The tests showed that the bits made of T15k6 grade alloy are easily Card 1/5

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High-Speed Gear Hobbing With Hard-Alloy Fitted Hobs

destroyed by the chipping-off of large specks. Therefore, all further tests were made with the T5K10 grade alloy. Tests carried out with bits without chamfer at the front surface did not show any positive results. An investigation of the wear of blades showed that wear is both of a molecular and of mechanical character, i.e. that in most cases macro-particles are breaking off at the beginning and then, after some time, micro-particles are chipping off. Experimental graphs and functions were plotted in order to determine the optimum rear angles. The tests established that the durability of hots is mainly limited by wear of the rear surfaces. Figure 3 shows an experimentally obtained graph of the ratio: cutter durability/cutting speed. Based on the tests, a cutting speed within the range of 140 - 160 m/min is recommended. The tests to determine the effects of feed on the cutter durability wers carried out at a cutting speed of 142 m/min with feeds of 0.75, 1.0, 2.0 and 2.5 mm/rev. Figure 4 shows the function of hard-alloy hops plotted against the feed (in logarithmic coordinates). By way of analytical treatment it is possible to obtain from the graphs the following empirical formulae for the rating of durability: for a feed of s = 1 + 2 mm/rev - T =

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High-Speed Gear Hobbing With Hard-Alloy Fitted Hobs

for a feed of s \geq 2 mm/rev - T = $\frac{2900}{s^{3.75}}$ min. From these functions follows

that small feeds (up to 1.5 mm/rev) are not to be recommended. The treatment of the test data made it possible to develop the general function for the determination of cutting speed during high-speed gear milling in the form of

 $v = \frac{9.500}{\text{m}^{0.74}, 0.33}$ m/min.

This formula is correct for a feed range of $s=1\div 2$ mm/rev for an assumed dulling criterion of the blades at the rear surface of $h_d=0.5$ mm, if the T5K10 grade hard alloy is being used for the machining of material with a strength limit of $O_B=75$ kg/mm². For other machining conditions the authors state the correction factors. If the feed is higher than 2 mm/rev the cutting speed formula is: $\frac{100\ 000}{m^0.74 s^3.75}$ m/min,

although a higher feed than 2.0 mm/rev is not advisable. Figure 5 shows the distribution of wear over the teeth and that 21 blades took part in the

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High-Speed Gear Hobbing With Hard-Alloy Fitted Hobs

machining of parts by the ChPI-1 cutter. In order to elucidate the possibility of obtaining the necessary machining precision another two varieties of hobs were designed. Figure 6 shows the type ChPI-2, the construction of which is described by the authors in detail. The basic geometric parameters of both the types ChPI-2 and ChPI-1 and their manufacturing allowances are the same. The setting control of the blades is effected by checking the wobble along the blade tip with the aid of an indicator. The double-cut hard-alloy milling outter FS-3 (third variety) is designated for the machining of Bears with a module of 4,25 mm. Figure 7 shows this type of cutter of which a detailed description is given. The accuracy of machined gears was checked by measuring the deviation of the intercenter distance when being turned by one tooth and one revolution. It was found that, within the durability limits of the outter, the deviations of the intercenter distance remained practically constant. The surface finish of the machined part was checked by every fifth tooth and, as it is shown in Figure 8, it was found that the surface of the machined teeth gradually deteriorates as the wear of the cutter increases, and, at a given moment, the surface quality becomes more or less stable. The authors draw the following

Card 4/5

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High-Speed Gear Hobbing With Hard-Alloy Fitted Hobs

conclusions from their investigations: 1) High-speed finishing milling of cylindrical gears by assembling hobs equipped with hard-alloy bits is very efficient, and machining time could be reduced by 3.5 times while machining the flywheel rim of the S-100 tractor, and twice when machining the reducer gear of the same tractor. 2) Assembling hobs fitted with hard-alloy bits ensure a third class accuracy for gear hobbing on serial machine tools. 3) A surface finish of the fifth or sixth class can be obtained. 4) With high-speed finishing gear hobbing it is expedient to use the T5K10 grade hard alloy. The optimum angle of the hard-alloy blades at the front surface is 00, that of the chamfer = 50. 5) High-speed gear hobbing can be effected with the aid of machine tools of present serial design without considerable modernization. If new high-efficiency hobbing machines are designed, the authors recommend an increased driving power (by 40 - 50%), increased spindle rotation speed, rigidity and vibration resistance of the whole unit. The ENIMS together with the "Komscmolets" Plant developed the new 5312 and 5314 models of gear cutting machines w which are not yet industrially approved. 6) Production costs of hobs are still too high and should be reduced by corresponding organization of the manufacturing process. Four graphs, 4 diagrams, 2 Soviet and 2 English references.

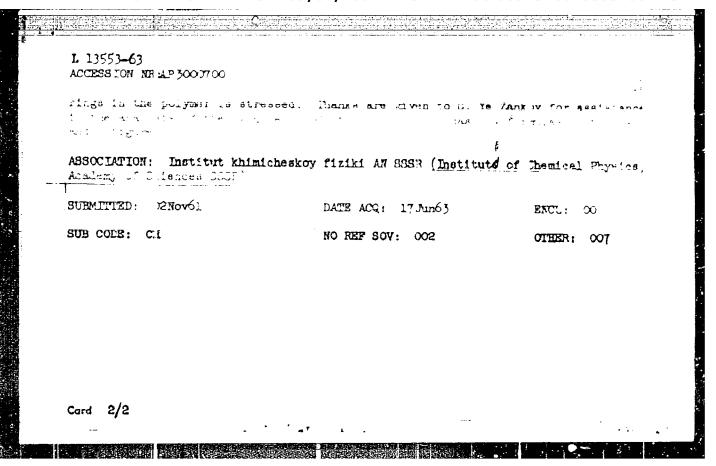
Card 5/5

ROMANOV, L.M.; VERKHOTUROVA, A.P.; KISSIN, Yu.V.; RAKOVA, G.V.

Polymerization of 1,5-heptadiene on complex catalysts. Vysokom. soed. 5 no.5:719-723 My 163. (MIRA 17:3)

1. Institut khimicheskoy fiziki AN SSSR.

13553-63	EMP(1)/EPF(c)/EMT(m)/BDS			
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BOURCE: Vy	enkomolekulyarny ^a ya soyadinaniya	v. 5, no. 5, 135	7,9-723	
OF IN TAGE	copolymerization, complex cataly	ests, infrared spe	tra	
ABSTRACT . !	be difficulties in obtaining rubb	ers suitable for	ulcanization	py means
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JULIUSEL LLE '	n-heptane solution at 70 to 60C. like texture, a molecular veight		0% of louble	bonds,



BABCHENKO, N.N.; SAMOYLENKO, E.I.; VERKHOTUROVA, F.I.; AFANAS YEVA, L.I.; NADEZHDINSKAYA, N.G.; PODSEVALOV, V.N., Kand. tekhn. nauk; PASHCHINSKAYA, G., red. izd-va; YEFINENKO, A., tekhn. red.

[Technological instructions on the production of canned fish by the enterprises of the Kaliningrad Economic Council]Sbornik tekhnologicheskikh instruktsii po vyrabotke rybnykh kenservov predpriiatiiami Kaliningradskogo sovnarkhoza. Kaliningrad, Kaliningradskogo knizhnog izd-vo, 1962. 239 p. (MIRA 15:12)

1. Kaliningrad. Baltiyskiy nauchno-issledovatel'skiy institut merskogo rybnogo khozyaystva i okeanografii. 2. Baltiyskiy nauchno-issledovatel'skiy institut merskogo rybnogo khozyaystva i okeanografii, Tekhnologicheskaya laboratoriya, Kaliningrad (for Babchenko, Samoylenko, Verkhoturova, Podsevalov).

(Canning and preserving) (Kaliningrad Province--Fish, Canned)

L 08900-67 ACC NR. AT6028988

SOURCE CODE: UR/0000/66/000/000/0202/0211

AUTHOR: Tal'ko-Grintsevich, P. P.; Klimkovich, V. I.; Verkhoturova La Kanna

-6

ORG: none

TITLE: Methods of testing small ferrite samples at a constant current

SOURCE: Vsesoyuznoye soveshchaniye po ferritam. 4th, Minsk. Fizicheskiye i fizikokhimicheskiye svoystva ferritov (Physical and physicochemical properties of ferrites); doklady soveshchaniya. Minsk, Nauka i tekhnika, 1966, 202-211

TOPIC TAGS: ferrite, magnetic property, magnetization, hysteresis loop, temperature dependence, heat resistant material, Curie point, statistical analysis

ABSTRACT: Small ferrite samples of the "oxifer" group were tested for magnetic and thermomagnetic properties on a specially designed apparatus consisting of a photoelectric fluxmeter, a unit for regulating the magnetization current, and an x-y recorder. Equations were given for deriving the magnetic hysteresis characteristics from geometrical and structural parameters. The deviation of hysteresis loops from an ideally rectangular shape is related to the Gaussian probability parameters x_1 and x_2 . From a commutation curve, the dependence of the permeability on the magnetic field (H) was obtained. The maximum permeability occurred at $\frac{1}{2}H_C \leq H \leq 2H_C$, where H_C is the coercive force. Limiting hysteresis curves were presented for fields which were 7-9 times

Card 1/2

ACC NR: AT6028988

greater than H_a. Heat resisting ferrites were tested i

greater than H_c . Heat resisting ferrites were tested in a TS-15 thermostat, after placing the samples in a copper cylinder filled with transformer oil. The temperature dependence of 1/H dH/dT, 1/B dB/dT, and $1/\alpha$ $d\alpha/dT$ was given; where $\alpha = B_r/B_m$ and B_r is the residual inductance, and B_m is the maximum inductance. On the average, H_c changed 0.1 %/deg. Curie point determinations of high accuracy were made with the photoelectric fluxmeter. The Curie points of heat resistant and ordinary ferrites were identical. A statistical analysis was done on experimental values of H_c and H_c obtained from a column containing 50 small samples. The deviation of H_c and H_c from the arithmetic mean did not exceed 5%. Orig. art. has: 7 figures, 2 tables, 9 formulas.

SUB CODE: 09,11/ SUBM DATE: 22Dec65/ ORIG REF: 005/ OTH REF: 001

Cord 2/2 plan

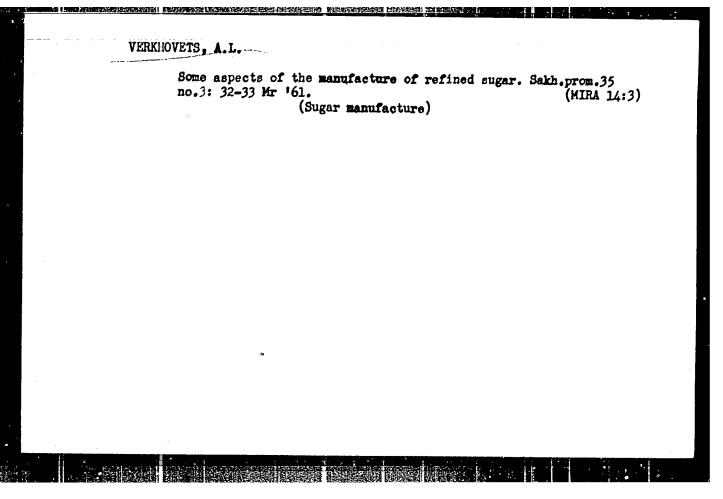
	On Kuvshinov's suggestion. Muk.elev.prom. 20 no.3:31-32 Mr 154. (MLRA 7:7)	
	 Vsesoyuznoye ob^ayedineniye Zagotzerno. (Corn(Maize) Diseases and pests) (Knyshinov, a.) 	
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VERKHOVASKII, I.

New concepts on the delamination of material in a hydraulic pulsator jig. p. 165.

PRZEGLAD GOFNICZY. Katowice, Poland, Vol. 5, no. 4, Apr. 1959.

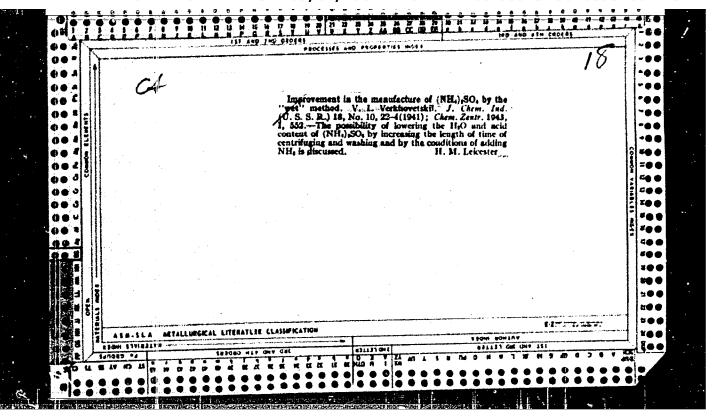
Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 9, September, 1959. Uncl.



OVETS, A.L. Increase quality control of refined sugar. Sakh.prom.31 no.9:65 S 157. (MIRA 10:12)
1. Khutor-Mikhaylovskiy rafinadnyy zavod. (Sugar industry)

TRUBACHEV, L.I., ANTIPIN, L.N., VAZHENIN, S.F., KRYMOV, A.I., VERKHOVETS, V.T.

Adjusting the electrolyte of an aluminum tath with a liquid melt. TSvet. met. 38 no.8:58-60 Ag '65. (MCBL 18:9)



SOV/19-58-6-163/685

AUTHOR:

Ulanovskaya, T.L.Ya., and Verkhovin, A.A.

TITLE:

A Method of Measuring the Delay Time of Delay Lines (Sposob izmereniya vremeni zaderzhki liniy zaderzhki)

PERIODICAL:

Byulleten' izobreteniy, 1958, Nr 6, p 39 (USSR)

ABSTRACT:

Class 21a⁴, 71. Nr 113565 (557156 of 8 Sep 1956). Submitted to the Committee for Inventions and Discoveries at the Ministers Council of USSR. A method of measuring the delay time of delay lines, making it possible to take measurements over a wide range and with greater accuracy, consisting of determination of the time delay by the change of the frequency of natural oscillations in an amplifier encompassed by feedback when introduced into the feedback circuit of the delay line being measured.

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SAMOYLOV, Vladimir Fedorovich; KRIVOSHEYEV,M.I., redaktor; VERKHOVIMA,
T.M., redaktor; SOKOLOVA,R.Ya., tekhnicheskiy redaktor

[Statistical characteristics of television signals and requirements for capacity channels] Statisticheskie svoistva television-nego signala i trebovaniia k propusknoi sposobnosti kanala. Hoskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1955. 39 p. (Television) (MLRA 9:3)

CHERENKOWA, Yelena Lazarevna; KUZ'MIN, Y.A., redaktor; VERKHOVINA, T.M., redaktor; LEDKEVA, H.V., tekhnicheskiy redaktor.

[Distortion of telegraph signals in short wave transmission]
Iskasheniia telegrafnykh signalov pri peredache na korotkikh
volnakh. Hoskva, Ges.izd-ve lit-ry po voprosan sviazi i radio,
1955. 43 p.

(Telegraph, Wireless)

DOLUKHANOV, Mark Pavlovich; VASIL'YEV, A.M., redaktor; VKRKHOVINA, T.M., redaktor; LEDNEVA, H.V., tekhnicheskiy redaktor

[Introduction to the theory of transmitting information through electric communication channels] Vvedenie v teoriiu peredachi informatsii po elektricheskim kanalam sviazi. Moskva, Gos.izd-volit-ry po voprosam sviazi i radio, 1955. 125 p. (MIRA 9:3) (Telecommunication)

VERKHOVINA, T. M.

KUZ'MIN, V.A., redaktor; VERKHOVINA, T.M., redaktor; SOKOLOVA, R.Ya., tehnnicheskiy redaktor

[Communications engineering; controlled quarts-crystal oscillators and exciters for frequency radiotelegraphy; a manual] Tekhnika sviazi; upravliaemye kvartsevye generatory i vosbuditeli dlia chastotnogo radiotelegrafirovaniia, informatsionnyi sbornik. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1955. 230 p.

(MLRA 9:2)

1. Russia (1923- U.S.S.R.) Ministerstvo svyasi. Tekhnicheskoye upravleniye.

(Telegraph, Wireless)

ROZENFELID, Yefim Isaakovich; LOKSHIN, A.M., otvetstvennyy redaktor; VERKHOVIHA, T.M., redaktor; VEYMTRAUB, A.B., tekhnicheskiy redaktor

[Filtration of harmonics in shortwave transmitters] Filtratsia garmonik korotkovolnovykh peredatchikov. Moskva. Gos. izd-volit-ry po voprosam sviazi i radio, 1956. 42 p. (MLRA 9:11) (Radio filters)

YUDIN, Anatoliy Ivanovich; YEVIANOV, S.N., nauchnyy redaktor; VERKHOVINA, T.M., redaktor; LEDHEVA, N.V., tekhnicheskiy redaktor

[Impulse methods of modulation in multiple signal telephone systems]
Impulsance metody roduliate in pro unogokratnom telefonirovanii.

Moskva, Gos. izd-vo lit-ry po voprosam sviasi i radio, 1956. 54 p.

(Telephone) (MIRA 9:8)

VFRKHOVININA, L.D., aspirantka; SHALOV, I.I., prof., rukovoditel' raboty

Using the shrinkage properties of polypropylene fibers in the manufacture of warp-knit goods. Tekst. prom. 25 no.9;53-57 (MIRA 18:10) S '65.

1. Moskovskiy tekstil'nyy institut.

 VERKHOVININA, L.D., aspirant; TSITOVICH, K.G.; KATSENELENBOGEN, A.M.

Use of polypropylene yarn in the knit goods industry. Tekst.prom. 23 no.11:69-74 N 63.

1. Moskovskiy tekstil'nyy institut (for Verkhovinina). 2. Glavnyy inshilivanteyevskey fabriki imeni Dzerzhinskogo (** TSitovich). 3. Zamestitel' nachal'nika nauchno-issledovatel'skey laboratorii Ivanteyevskoy fabriki imeni Dzerzhinskogo (for Katsenelenbogen).

<u>VERKHOVINSKIY, R.B.</u>(selo Barabash, Primorskiy kray); MASLOVETS, I.I. (selo Barabash, Primorskiy kray)

Marginal markers for crowns. Stomatologiia 40 no.1:103 Ja-F '61. (MIRA 14:5) (DENTAL INSTRUMENTS AND APPARATUS)

s/081/62/000/001/015/067 B156/B101

Verkhovod, B. N., Kozhbanova, M. O., Dedeshko, M. P.,

Vyatchennikova, N. V. AUTHORS:

Spectrochemical determination of certain rare earths using

the AP(-3 (DFS-3) spectrograph TITLE:

Referativnyy zhurnal. Khimiya, no. 1, 1962, 143, abstract 1D67 (Tr. In-ta geol. nauk KazSSR, v. 4, 1961, 136-138) PERIODICAL:

TEXT: Rare earth elements (REE) are separated by chemical methods from the corresponding minerals, solutions of which are so treated as to produce the REE in the form of oxaletes (the chemical treatment technique is not described). The REE mixture is first diluted in 10-50 times the amount of carbon powder, and then in twice the amount of a powder containing 0.2% Sc as an internal standard. Standards are made from REE oxides on a CaCO3 The powders are placed in a hole 4 mm in diameter and 4 mm deep in the lower carbon electrode (the wall thickness remaining is 0.5 mm); the

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Spectrochemical determination of ...

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upper electrode is conical in shape. The spectra are excited in an a.c. arc discharge at 10-12 a. The analysis gap is 3 mm and the exposure time 5 min. The spectra are photographed using a DFS-3 diffraction spectrograph in the 3000-3500 % region (it has a 0.02 mm slot). The following elements are determined at concentrations between 0.003 and 3.0%: Y, La, Ce, Nd, Gd, Tb, Dy, Ho, Er, Yb, Lu. Possible superpositions of lines are indicated: [Abstracter's note: Complete translation.]

Card 2/2

LAVRUSHIN, V.F.; VERKHOVOD, N.N.

Synthesis of certain derivatives of the chalcone series and its vinyl analogs. Zhur. org. khim. 1 no.7:1220-1222 Jl '65.

(MIRA 18:11)

1. Khar'kovskiy gosudarstvennyy universitet imeni A.M.Gor'kogo.

VERKHOVOD, N.N.

LUTHOR TITLE

LAVRUSHIN, V.F., VERKHOVOD, N.N. 20-2-32/62
The Halochromism of Phenyl- and Cyclohexyl- Carbinols.

(Galokhromiya fenil- i tsiklogeksilkarbinolov - Russian) Doklady Akad. Mauk SSSR, 1957, Vol 115, Nr 2, pp 312 - 314 (U.S.S.R.)

PERIODICAL

ABSTRACT

In a study of the phenomenon of the haolochromism of carbinols of various structure the authors found that acid solutions of these compounds give two types of absorption spectra. Those containing phenyl radicals are characterized by complex absorption curves. These curves contain three and more absorption bands respectively. The curves of tertiary cyclohexanols and aliphatic alcohols possess only one band with a broad curvature in the near visible spectrum. In this connection it was interesting to study the absorption spectra of acid solutions of aromatic carbinols in accordance with the replacement of benzene rings in their molecules by cyclohexane rings. For this purpose the authors made a comparative study of the absorption spectra of triphenyl-,cyclohexyldiphenyl-, dicyclohexylphenyl-, tricyclohexyl-, methyldicyclohexyl- and dicyclohexyl-carbinol. Theabsortion curves and absorption bands are described and the differences among individual substances in this respect are given. A study of the spectra of phenyl- and cyclohexyl-carbinol in concentrated sulfuric acid showed that triphenylcyrbinol, cyclohexyldiphenylcarbinol and dicyclohexylphonylcyrbinol possesss a complex spectrum of one and the same type. Their curves differ in the number of absorption bands. For sulphuric acid solutions of tricyclohexyl-, methyldicyclohexyl- and dicyclohexylcarbinol absorption specta of another type were obtained. They are

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The Haolochromism of Phenyl- and Cyclohexyl- Carbinols. 20-2-32/62 characterized by simpler curves with one single absorption band. The development of color on interaction of all carbinols studied here with concentrated sulfuric acid and a decclorization on dilution of the acid solution with water indicate that a typical phenomenon of habchromism has to be dealt with here. This was well investigated in the case of triphenylcarbinol andrepresents a reaction of acid-base interaction. Since other phenyl-and cyclohexylcarbinols behave toward sulfuric acid in the same manner as triphenylcarbinol, it may be assumed that their interaction with this acid takes place in an analogous manner. The different number of bands on the absorption curves of carbinols containing phenylradicals depends on the number of these radicals. This was already observed by the authors in a study of the halochromism of aromatic carbinols. In the case of carbinols without phenyl radicals the absorption curves almost coincide in form and position with one another and with the curves of tertiary coclohexanes and aliphatic alcohols. This furnishes, according to the authors, an additional confirmation of the fact that the curves of all these compounds helong to the carbon ion --- C+, since the radicals connected with it do not absorb ultraviolet light. (2 ill., 3 Sl.references). ASSOCIATION Khar'kov State University im.A. M. Gor'kiy
PRISENTED BY NESMEYANOV A.N., Member of the Academy, April 9, 1957

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Library of Congress.

VEKKHOVOL, A.W.
LAVRUSHIN, V.F.; VERKHOVOD, N.N.

Halochromism of phenyl- and cyclohexylcarbinols. Dokl.AN SSSR 115

no.2:312-314 J1 '57. (MIRA 10:12)

1. Khar'kovskiy gosudarstvennyy universitet im. A. M. Gor'kogo. Predstavleno akademikom A.N. Nesmeyanovym. (Alcohols)

IAVRUSHIN, V.P.; VERKHOVOD, N.N.

Spectra and halochromism. Part 2:Halochromism of tertiary alicyclic and aliphatic alcohols. Zhur. ob. khim. 26 no.10:2704-2710 0 '56.

(MIRA 11:3)

1. Khar'kovskiy Gosudarstvennyy universitet.
(Alcohols) (Spectrum analysis)

LITVINENKO, L.M.; ORAKOV, A.P.; YERKHOVOD, N.N.; DZYUBA, V.P.

Synthesis of certain halide containing amino- and nitro derivatives of bivinyl. Zhur.ob.khim. 26 no.9:2524-2531 S '56. (MLRA 9:11)

1. Khar'kovskiy gosudarstvennyy universitet. (Butadiene)